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Editorial & Design Services

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Basis Weight and Grammage Conversion Tables

Of Use in the Publishing Industry

To ensure production quality when publications designed or typeset in one country are printed in a second country, it may be necessary to convert US basis weights to their metric equivalents or vice versa. Because designers and publishers often do not have ready access to conversion tables, EDS Inc., Editorial & Design Services, has published the multidirectional tables on this page. (For grammage of Japanese papers, see [Japanese Papers for Printing](#).)

Basis Weight

In the United States, the weight in pounds of one ream (500 sheets) of paper cut to the basic size (or trade size) for a specific grade of paper.

Grammage

In countries using the metric system, the weight in grams of one sheet of paper that is one square meter in area--not dependent on basic sheet size or paper grade.

Key to Paper Grades in Basis Weight and Grammage Equivalents Tables

Basis Weight & Grammage Equiva- lents Arranged by US Paper Grade

Grammage & Basis Weight Equivalents Arranged by Grammage

Basis Weight & Grammage Conversion Factors

Key to Paper Grades in Basis Weight and Grammage Equivalents Tables

Paper Grade	Basic Size	Look Under	Paper Grade	Basic Size	Look Under
Bible	25" x 38"	Book	Manifold	17" x 22"	Bond
Bond	17" x 22"	Bond	Newsprint	24" x 36"	Newsprint
Book	25" x 38"	Book	Offset	25" x 38"	Book
Bristol	22.5" x 28.5"	Bristol	Onionskin	17" x 22"	Bond
Coated	25" x 38"	Book	Safety	17" x 22"	Bond
Cover	20" x 26"	Cover	Tag	24" x 36"	Tag
Index	25.5" x 30.5"	Index	Text	25" x 38"	Book
Ledger	17" x 22"	Bond	Wedding	17" x 22"	Bond

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Basis Weight and Grammage Equivalents Arranged by US Paper Grade

Basis weights are given in bold type; Basic sizes are given in inches; "Grammage" can be written either as shown in parentheses in the column head or with the simplified notation "gsm" (i.e., grams per square meter). N.B. Except for basis weights, all weights are rounded off to the nearest whole number; Grammage is calculated from basis weight; Cross-grade equivalents are calculated from grammage; Because of rounding, cross-grade equivalents are sometimes inconsistent.

Paper Grade	Bond 17 x 22	News- print 24 x 36	Book 25 x 38	Cover 20 x 26	Bristol 22.5 x 28.5	Index 25.5 x 30.5	Tag 24 x 36	Gram- mage (g/m ²)
Bond	8	18	20	11	14	17	18	30
	9	21	23	13	15	19	21	34
	12	28	30	17	21	25	28	45
	13	30	33	18	22	27	30	49
	16	37	41	22	27	33	37	60
	20	46	51	28	34	42	46	75
	24	55	61	33	41	50	55	90
	28	65	71	40	48	58	65	105

	32	74	81	44	55	67	74	120
	36	83	91	50	62	75	83	135
	40	92	102	56	69	83	92	150
News-print	10	22	24	13	16	20	22	36
	12	28	31	17	21	25	28	46
	13	30	33	18	22	27	30	49
	14	32	35	19	24	29	32	52
	15	34	37	20	25	31	34	55
	15	35	39	21	26	32	35	57
Book	7	15	17	9	11	14	15	25
	8	18	20	11	13	16	18	30
	9	22	24	13	16	20	22	36
	12	27	30	16	20	25	27	44
	13	30	33	18	22	27	30	49
	14	32	35	19	24	29	32	52
	16	36	40	22	27	33	36	59
	17	39	43	24	29	35	39	64
	18	41	45	25	30	37	41	67
	20	45	50	27	34	41	45	74
	22	50	55	30	37	45	50	81
	24	55	60	33	40	49	55	89
	28	64	70	38	47	57	64	104
	30	68	75	41	51	61	68	111
	31	73	80	44	54	65	73	118
	35	82	90	49	61	74	82	133
	39	91	100	55	67	82	91	148
	41	95	105	57	71	86	95	155
	43	98	108	59	73	88	98	160
	47	109	120	66	81	98	109	178
	29	66	73	40	49	60	66	108
	36	83	91	50	62	75	83	135
	40	91	100	55	68	82	91	149

Cover	43	100	110	60	74	90	100	162
	45	105	115	63	78	94	105	170
	47	108	119	65	80	97	108	176
	47	109	120	66	81	98	109	178
	49	113	124	68	85	103	113	184
	50	116	128	70	86	105	116	189
	58	133	146	80	99	120	133	216
	60	139	153	84	104	126	139	227
	65	150	164	90	111	135	150	243
	72	166	183	100	123	150	166	270
	79	183	201	110	136	165	183	298
	86	199	219	120	148	179	199	325
	94	216	237	130	160	194	216	352
Bristol	33	77	84	46	57	69	77	125
	39	90	99	54	67	81	90	147
	47	108	119	65	80	97	108	175
	52	121	133	73	90	109	121	197
	58	135	148	81	100	121	135	219
	70	162	178	97	120	146	162	263
	82	189	207	114	140	170	189	307
	93	216	237	130	160	194	216	351
	105	243	267	146	180	218	243	395
	117	269	296	162	200	243	269	439
Index	43	100	110	60	74	90	100	163
	53	122	134	74	91	110	122	199
	67	156	171	94	115	140	156	253
	82	189	208	114	140	170	189	307
	106	244	269	147	181	220	244	398
Tag	43	100	110	60	74	90	100	163
	54	125	137	75	93	113	125	203
	65	150	165	90	111	135	150	244
	76	175	192	105	130	158	175	285
	87	200	220	120	148	180	200	326

	108	250	275	150	186	225	250	407
	130	300	330	181	227	270	300	488

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Grammage and Basis Weight Equivalents

Arranged by Grammage

Basis weights are given in bold type; Basic sizes are given in inches; "Grammage" can be written either as shown in parentheses in the column head or with the simplified notation "gsm" (i.e., grams per square meter). N.B. Except for basis weights, all weights are rounded off to the nearest whole number; Grammage is calculated from basis weight; Cross-grade equivalents are calculated from grammage; Because of rounding, cross-grade equivalents are sometimes inconsistent.

Gram- mage (g/m ²)	Bond 17 x 22	News- print 24 x 36	Book 25 x 38	Cover 20 x 26	Bristol 22.5 x 28.5	Index 25.5 x 30.5	Tag 24 x 36
25	7	15	17	9	11	14	15
30	8	18	20	11	13	16	18
34	9	21	23	13	15	19	21
36	10	22	24	13	16	20	22
44	12	27	30	16	20	25	27
45	12	28	30	17	21	25	28
46	12	28	31	17	21	25	28
49	13	30	33	18	22	27	30
52	14	32	35	19	24	29	32
55	15	34	37	20	25	31	34
57	15	35	39	21	26	32	35
59	16	36	40	22	27	33	36
60	16	37	41	22	27	33	37
64	17	39	43	24	29	35	39
67	18	41	45	25	30	37	41
74	20	45	50	27	34	41	45
75	20	46	51	28	34	42	46
81	22	50	55	30	37	45	50

89	24	55	60	33	40	49	55
90	24	55	61	33	41	50	55
104	28	64	70	38	47	57	64
105	28	65	71	40	48	58	65
108	29	66	73	40	49	60	66
111	30	68	75	41	51	61	68
118	31	73	80	44	54	65	73
120	32	74	81	44	55	67	74
125	33	77	84	46	57	69	77
133	35	82	90	49	61	74	82
135	36	83	91	50	62	75	83
147	39	90	99	54	67	81	90
148	39	91	100	55	67	82	91
149	40	91	100	55	68	82	91
150	40	92	102	56	69	83	92
155	41	95	105	57	71	86	95
160	43	98	108	59	73	88	98
162	43	100	110	60	74	90	100
163	43	100	110	60	74	90	100
170	45	105	115	63	78	94	105
175	47	108	119	65	80	97	108
176	47	108	119	65	80	97	108
178	47	109	120	66	81	98	109
184	49	113	124	68	85	103	113
189	50	116	128	70	86	105	116
197	52	121	133	73	90	109	121
199	53	122	134	74	91	110	122
203	54	125	137	75	93	113	125
216	58	133	146	80	99	120	133
219	58	135	148	81	100	121	135
227	60	139	153	84	104	126	139
243	65	150	164	90	111	135	150
244	65	150	165	90	111	135	150

253	67	156	171	94	115	140	156
263	70	162	178	97	120	146	162
270	72	166	183	100	123	150	166
285	76	175	192	105	130	158	175
298	79	183	201	110	136	165	183
307	82	189	207	114	140	170	189
325	86	199	219	120	148	179	199
326	87	200	220	120	148	180	200
351	93	216	237	130	160	194	216
352	94	216	237	130	160	194	216
395	105	243	267	146	180	218	243
398	106	244	269	147	181	220	244
407	108	250	275	150	186	225	250
439	117	269	296	162	200	243	269
488	130	300	330	181	227	270	300

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Basis Weight and Grammage Conversion Factors

"Lb." means "pounds" (i.e., basis weight); "Gsm" means "grams per square meter" (i.e., grammage); Some of the basic sizes here are not included in the tables above.

Basic Size (Trade Size)	Basis Weight to Grammage	Grammage to Basis Weight
17" x 22"	3.7597 x lb. = gsm	0.26598 x gsm = lb.
19" x 24"	3.0836 x lb. = gsm	0.32429 x gsm = lb.
20" x 26"	2.7041 x lb. = gsm	0.36981 x gsm = lb.
22" x 28"	2.2827 x lb. = gsm	0.43808 x gsm = lb.
22.5" x 28.5"	2.1928 x lb. = gsm	0.45604 x gsm = lb.
22" x 34"	1.8799 x lb. = gsm	0.53196 x gsm = lb.
24" x 36"	1.6275 x lb. = gsm	0.61445 x gsm = lb.
25" x 38"	1.4801 x lb. = gsm	0.67561 x gsm = lb.
25.5" x 30.5"	1.808 x lb. = gsm	0.55311 x gsm = lb.
1000 sq. ft.	4.8824 x lb. = gsm	0.20482 x gsm = lb.
3000 sq. ft.	1.6275 x lb. = gsm	0.61445 x gsm = lb.

3300 ft² =

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